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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/423,471	03/28/2000	Craig M. Whitehose	840.059.001	6780
4617 7590 07/28/2008 LEVISOHN, BERGER , LLP		EXAMINER		
61 BROADWAY, 32ND FLOOR			JOHNSTON, PHILLIP A	
NEW YORK, I	NY 10022		ART UNIT PAPER NUMBER	
			2881	
			MAIL DATE	DELIVERY MODE
			07/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rcv. 04/07)

•	r	I & 4:				
	Application No.	Applicant(s)				
Office Action Cummany	09/423,471	WHITEHOUSE ET AL.				
Office Action Summary	Examiner	Art Unit				
	PHILLIP A. JOHNSTON	2881				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>18 September 2002</u> .						
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-5 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-5 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)⊡ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on 28 March 2000 is/are:	a)⊠ accepted or b)⊡ objected t	to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some c) None of:  1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date.  5) Notice of Informal Patent Application						

Art Unit: 2881

## **Detailed Action**

1. This Office Action is submitted in response to the Petition To Revive granted 9-18-2002, wherein claims 1-5 are pending.

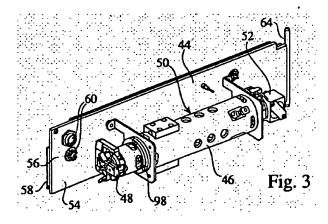
## Claims Rejection – 35 U.S.C. 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 3. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,753,795 to Kuypers, in view of Foley, USPN 3,767,925.
- 4. Regarding claims 1-5 Kuypers teaches a demountable vacuum-sealing plate 45 (removable insert assembly) shown below in Figure 3 having; ion source 48, mass analyzer 50, ion detector 52, and ion entrance port 98, which one of ordinary skill would recognize also includes an ion optics assembly. See Col. 2, line 38-49.

Kuypers discloses mounting plate 45 to vacuum chamber 66 (vacuum system housing), connected to vacuum pump 96. Col. 2, line 60-66; and Col. 4, line 40-43.



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Kuypers fails to teach the use of vacuum partitions for maintaining vacuum stages when the assembly is inserted into the vacuum system housing.

Foley discloses the use of partions or walls that form three chambers which are each evacuated through different pumping ports. See Col. 2, line 19-29; and Col. 5, line 20-38.

Foley modifies Kuypers to provide plural walls or partitions for dividing an enclosure into three vacuum chambers, which would be predictable to one of ordinary skill in the art.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to separate the Kuypers ion source, mass analyzer and detector with the walls or partitions of Foley, as being no more than the predictable use of prior-art elements according to their established functions.

## Conclusion

5. Any inquiry concerning this communication or earlier communications should be directed to Phillip Johnston whose telephone number is (571) 272-2475. The examiner can normally be reached on Monday-Friday from 7:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiners supervisor Robert Kim can be reached at (571)272-2293. The fax phone number for the organization where the application or proceeding is assigned is 571 273 8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ΡJ

May 9, 2008

/ROBERT KIM/

Supervisory Patent Examiner, Art Unit 2881